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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/722,870	0 11/26/2003		Marc Alan Strand	80063	8649
40850	7590	12/13/2005		EXAMINER	
ERIC D. M.		IAS AL COMPANY	BOYKIN, TERRESSA M		
P. O. BOX 5		AL COMI AIVI		ART UNIT	PAPER NUMBER
KINGSPOR	r, TN 3	7662-5075	1711		

DATE MAILED: 12/13/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)					
Office Action Summary	10/722,870	STRAND ET AL.					
Office Action Summary	Examiner	Art Unit					
	Terressa M. Boykin	1711					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	correspondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on 9-15-	05.						
	— action is non-final.	•					
3) Since this application is in condition for allowan							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims		·					
4) Claim(s) 1-33 is/are pending in the application.							
4a) Of the above claim(s) is/are withdraw	n from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-33</u> is/are rejected.	_						
7) Claim(s) is/are objected to.	•						
	Claim(s) are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner							
	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the o							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)☐ The oath or declaration is objected to by the Exa	-	` '					
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priori application from the International Bureau * See the attached detailed Office action for a list of	have been received. have been received in Application ty documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage					
Attachment(s)							
Notice of References Cited (PTO-892)	4) Interview Summary						
Paper No(s)/Mail Date Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Notice of Informal Patent Application (PTO-152)							
Paper No(s)/Mail Date <u>3/05;7/05;9/05</u> .	6) Other:	atent Application (FTO-132)					

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Response to Arguments

In view of applicants' clarification of the intended subject matter, and update searching of this intended subject matter, the following claims have been rejected:

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-15, 16, 17-28, 29,30--33 are rejected under 35 U.S.C. 103(a) as being unpatentable over US 20040127609 see abstract and pages 1-4.

US 20040127609 discloses flame retardant polyester compositions suitable for calendaring may be prepared from polyesters having crystallization half time of at least 5 minutes, a plasticizer, a phosphorus-containing flame retardant miscible with the plasticized polyester, and an additive effective to prevent sticking of the polyester to the calendar rolls. Also disclosed are processes for flame retardant films or sheets by calendering the above compositions and the flame retardant films or sheets produced therefrom. These films and sheets have excellent appearance, flexibility, and flame retardancy, and can be used in a wide range of decorative and packaging applications. The inherent viscosity,

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abbreviated herein as "I.V.", of the polyesters of the invention generally ranges from about 0.4 to about 1.2 dL/g and, preferably, about 0.5 to about 1.0 dL/g. The term I.V. refers to inherent viscosity determinations made at 25.degree. C. using 0.25 gram of polymer per 50 mL of a solvent composed of 60 weight percent phenol and 40 weight percent tetrachloroethane. Typically, melt strength may be increased by the addition of small amounts (about 0.1 to about 2.0 mole %) of a branching agent to the polyesters either during their initial preparation or during subsequent blending or feeding procedures prior to reaching the calendering equipment. With regard to claims 2-15, 16, 17-28, 29,30—33 see pages 2-4.

With regard to claims 16 and 29 note that the reference discloses that the plasticizer used herein comprises diethylene glycol dibenzoate, abbreviated herein as "DEGDB".

In the preparation of polyester by direct esterification, i.e., from the acid form of the dicarboxylic acid component, polyesters are produced by reacting the dicarboxylic acid or a mixture of dicarboxylic acids with the diol component or a mixture of diol components. The reaction is conducted at a pressure of from about 7 kPa gauge (1 psig) to about 1379 kPa gauge (200 psig), preferably less than 689 kPa (100 psig) to produce a low molecular weight, linear or <u>branched</u> polyester product having an average degree of polymerization of from about 1.4 to about 10. The temperatures employed during the direct esterification reaction typically range from about 180.degree. C. to about 280.degree. C., more preferably ranging from about 220.degree. C. to about 270.degree. C. This low

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molecular weight polymer may then be polymerized by a polycondensation reaction.

It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ both the claimed ranges of the specific weight percent of branching monomer residues as well as the specific range for the inherent viscosity. Applicants have provided no satisfactory results that would lend to an unobvious result of using the now narrowed claimed range of the branching agent. Further, one would have known to adjust the inherent viscosity according to the function of the intended composition since no unobvious result is connected thereto. Consequently, the claimed invention cannot be deemed as unobvious and accordingly is unpatentable.

Correspondence

Please note that the cited U.S. patents and patent application publications are available for download via the Office's PAIR. As an alternate source, all U.S. patents and patent application publications are available on the USPTO web site (www.uspto.gov), from the Office of Public Records and from commercial sources. Applicants may be referred to the Electronic Business Center (EBC) at http://www.uspto.gov/ebc/index.html or 1-866-217-9197.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Examiner Terressa Boykin whose telephone number is 571 272-1069. The examiner can normally be reached on Monday through Friday from 6:30am to 3:00pm.

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The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. The general information number for listings of personnel is (571-272-1700).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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